



# PU-Hardener

Urethan Activator  
60% Solids

SAFETY DATA SHEET

## **SECTION 1. IDENTIFICATION**

Product Name: 60% SOLIDS URETHANE ACTIVATOR

Product Code: PU-Hardener

Coatary LLC  
6108 W 9790 S  
West Jordan, UT 84081

EMERGENCY CONTACT: **PERS**  
DOMESTIC & CANADA : (800) 633-8253  
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## **SECTION 2. HAZARDS IDENTIFICATION**

GLOBALLY HARMONIZED SYSTEM (GHS)

CLASSIFICATION: HAZARDOUS

SKIN IRRITATION: CATEGORY 1

EYE IRRITATION: CATEGORY 1

SKIN SENSITIZATION: CATEGORY 1

SPECIFIC TARGET ORGAN TOXICITY – SINGLE EXPOSURE RESPIRATORY: CATEGORY 3

INHALATION-ACUTE TOXICITY: CATEGORY 4

**CARCINOGENICITY:** CATEGORY 2

**GHS LABEL ELEMENTS**

**HAZARD PICTOGRAMS**



**SIGNAL WORD:** WARNING!

**HAZARD STATEMENTS**

H319: CAN CAUSE EYE AND SKIN IRRITATION

H317: MAY CAUSE ALLERGIC SKIN REACTION

H334: MAY CAUSE ALERGY OR ASTHMA SYSMPTOMS OR BREATHING DIFFICULTIES IF INHALED

H402: HARMFUL TO AQUATIC LIFE

H411: TOXIC TO AQUATIC LIFE WITH LONG LASTING EFFECTS

H351: SUSPECTED OF CAUSING CANCER

**PRECAUTIONARY STATEMENTS:**

**PREVENTION**

P101: IF MEDICAL ADVICE IS NEEDED, HAVE PRODUCT CONTAINER OR LABEL AT HAND

P102: KEEP OUT OF REACH OF CHILDREN

P202: DO NOT HANDLE UNTIL ALL SAFETY PRECAUTIONS HAVE BEEN READ AND UNDERSTOOD

P271: USE ONLY OUTDOORS OR IN WELL VENTILATED AREAS

P280: WEAR PROTECTIVE GLOVES/ PROTECTIVE CLOTHING/ EYE PROTECTION/ FACE PROTECTION

**RESPONSE**

P304+P340: IF INHALED: REMOVE VICTIM TO FRESH AIR AND KEEP AT REST IN A POISTION COMFORTABLE FOR BREATHING

P305+P351+P338: IF IN EYES: RINSE CAUTIOUSLY WITH WATER FOR SEVERAL MINUTES. REMOVE CONTACT LENSES, IF PRESENT AND EASY TO DO SO. CONTINUE RINSING.

P308+P313: IF SKIN IRRITATION OR RASH OCCURS: GET MEDICAL ADVICE/ATTENTION

P337+P313: IF EYE IRRITATION PERSISTS: GET MEDICAL ADVICE/ATTENTION

P303+P361+P364: TAKE OFF CONTAMINATED CLOTHING AND WASH BEFORE REUSE

P391: COLLECT SPILLAGE

**DISPOSAL**

P501: DISPOSE OF CONTENTS/CONTAINER TO AN APPROVED WASTE DISPOSAL PLANT

OTHER HAZARDS

NO DATA AVAILABLE

### **SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS**

<b>HAZARDOUS INGREDIENTS</b>	<b>Wt. %</b>	<b>CAS Number</b>
HEXAMETHYLENE DIISOCYANATE OLIGOMERS	80-100	136210-30-5
1-CHLORO-4-(TRIFLUOROMETHYL)BENZENE	10-20	98-56-6

### **SECTION 4. FIRST AID MEASURES**

**GENERAL:** REMOVE PERSON FROM AFFECTED AREA AND MAKE COMFORTABLE. TREAT SYMPTOMATICALLY.

**EYES:** WASH OUT IMMEDIATELY WITH FRESH WATER. ENSURE COMPLETE IRRIGATION OF THE EYE BY KEEPING EYELIDS APART AND AWAY FROM THE EYE AND MOVING THE EYELIDS BY OCCASIONALLY LIFTING THE UPPER AND LOWER LIDS. SEEK MEDICAL ATTENTION WITHOUT DELAY; IF PAIN PERSISTS OR RECURS SEEK MEDICAL ATTENTION. REMOVAL OF CONTACT LENSES AFTER AN EYE INJURY SHOULD ONLY BE UNDERTAKEN BY SKILLED PERSONNEL.

**SKIN:** REMOVE PRODUCT AND FLUSH AFFECTED AREA WITH WATER FOR 15 MINUTES. IF IRRITATION PERSISTS GET MEDICAL ATTENTION.

**INHALATION:** MOVE TO FRESH AIR. GIVE ASSISTED RESPIRATION IF BREATHING HAS STOPPED OR IS LABORED (CALL A PHYSICIAN).

**INGESTION:** GIVE 3 – 4 GLASSES OF WATER OR MILK IF PERSON CONSCIOUS. DO NOT INDUCE VOMITING! OBTAIN MEDICAL CARE AND TREATMENT.

## **SECTION 5. FIRE FIGHTING MEASURES**

**EXTINGUISHING MEDIA:** IN CASE OF FIRE USE: DRY CHEMICAL, FOAM.

**SPECIAL FIRE FIGHTING PROCEDURES:** WEAR SELF-CONTAINED BREATHING APPARATUS AND PROTECTIVE CLOTHING. WATER SPRAY IS USEFUL IN COOLING FIRE-EXPOSED VESSELS AND IN DISPERSING VAPORS.

**UNUSUAL FIRE AND EXPLOSIVE HAZARDS:** COMBUSTIBLE. SLIGHT FIRE HAZARD WHEN EXPOSED TO FLAME. MAY GENERATE TOXIC OR IRRITATING COMBUSTION PRODUCTS.

**FIRE INCOMPATIBILITY:** AVOID CONTAMINATION WITH OXIDISING AGENTS I.E. NITRATES, OXIDISING ACIDS, CHLORINE BLEACHES, POOL CHLORINE ETC AS IGNITION MAY RESULT.

## **SECTION 6. ACCIDENTAL RELEASE MEASURES**

**STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:** SHUT OFF SOURCES OF IGNITION. COVER SPILLS WITH ABSORBENT. PLACE IN METAL CONTAINERS FOR RECOVERY OR DISPOSAL. PREVENT ENTRY INTO SEWERS, STORM DRAINS, AND WATERWAYS.

## **SECTION 7. HANDLING AND STORAGE**

**GENERAL:** STORE IN COOL, WELL VENTILATED AREAS. KEEP AWAY FROM HEAT AND OPEN FLAMES. AVOID PROLONGED INHALATION OF HEATED VAPORS OR MISTS. AVOID PROLONGED SKIN CONTACT.

**STORAGE:** AVOID TEMPERATURE EXTREMES. STORE AWAY FROM EXCESSIVE HEAT, FROM SOURCES OF IGNITION AND FROM REACTIVE MATERIALS.

## **SECTION 8. EXPOSURE CONTROLS, PERSONAL PROTECTION**

INGREDIENTS (CAS)	EXPOSURE LIMITS (ppm)	
	TWA	STEL
98-56-6	2.5 mg/m	NOT AVAILABLE
136210-30-5	.02 mg/m	NOT AVAILABLE

LEGEND: (M) MAX. EXPOSURE LIMIT; (S) OCCUPATIONAL EXP. LIMIT; (R) SUPPLIERS REC. LIMIT, (+) PERCUTANEOUS RISK

NOTE 1: VALUES MEANINGFUL ONLY WHEN HARDENED PRODUCT IS ABRADED, GROUND, ETC.  
ENGINEERING CONTROLS: NO SPECIFIC CONTROLS NEEDED. GENERAL AND LOCAL EXHAUST RECOMMENDED.

**RESPIRATORY PROTECTION:** A NIOSH APPROVED RESPIRATOR FOR ORGANIC VAPORS IS RECOMMENDED.

**PROTECTIVE GLOVES:** CHEMICAL RESISTANT, IMPERVIOUS GLOVES COMPLYING WITH APPROVED STANDARDS SHOULD BE WORN AT ALL TIMES WHEN HANDLING CHEMICAL PRODUCTS.

**EYE PROTECTION:** SPLASH-PROOF GOGGLES OR CHEMICAL SAFETY GLASSES

**OTHER PROTECTIVE EQUIPMENT:** LONG SLEEVED SHIRTS AND TROUSERS. EMERGENCY SHOWERS AND EYE WASH STATIONS SHOULD BE READILY ACCESSIBLE.

## **SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

**BOILING POINT:** DECOMPOSES

**DENSITY:** 10.11

**VAPOR PRESSURE:** ND

**FLASHPOINT:** 170 C

**VAPOR DENSITY:** ND (AIR = 1)

**EVAPORATION RATE:** ND

**SOLUBILITY IN WATER:** INSOLUBLE

**pH:** NA

**COEFFICIENT of WATER/OIL DISTRIBUTION:** ND

**ODOR THRESHOLD:** ND

**APPEARANCE AND ODOR:** CLEAR LIQUID, MILD AROMATIC ODOR

**% VOLATILES BY VOLUME:** ND

**% SOLIDS BY WEIGHT:** ND

## **SECTION 10. STABILITY AND REACTIVITY**

**STABILITY:** STABLE;

**CONDITIONS TO AVOID:** HEAT, FLAMES AND SPARKS, MOISTURE

**INCOMPATIBILITY (MATERIAL TO AVOID):** OXIDIZING AGENTS (PERCHLORATES, NITRATES), STRONG ACIDS, HYPOCHLORITES, PEROXIDES, STRONG BASES, WATER, AMINES AND ALCOHOLS

**HAZARDOUS DECOMPOSITION PRODUCTS:** NO DECOMPOSITION IF STORED AND APPLIED AS DIRECTED

**HAZARDOUS POLYMERIZATION (REACTIVITY):** WILL NOT OCCUR.

## **SECTION 11. TOXICOLOGICAL INFORMATION**

### **ACUTE TOXICITY**

NOT CLASSIFIED BASED ON AVAILABLE INFORMATION

### **COMPONENTS:**

#### **HEXAMETHYLENE DIISOCYANATE OLIGOMERS**

DERMAL (RAT) LD50 >5000 mg/kg

IRRITATION: EYE (RABBIT): 100mg – MILD

ORAL (RAT) LD50: >2000 mg/kg

IRRITATION: SKIN (RABBIT): 495 mg (OPEN)- MILD

#### **1-CHLORO-4-(TRIFLUOROMETHYL)BENZENE**

DERMAL (RAT) LD50: >2 mg/kg

IRRITATION: EYE – MILD

ORAL (RAT) LD50: 11500 mg/kg

IRRITATION: SKIN – MODERATE

### **SKIN CORROSION/IRRITATION**

PROLONGED CONTACT MAY CAUSE SKIN IRRITATION WITH LOCAL REDNESS.

REPEATED CONTACT MAY CAUSE SKIN IRRITATION WITH LOCAL REDNESS.

**SERIOUS EYE DAMAGE/EYE IRRITATION**

MAY CAUSE SERIOUS EYE INJURY.

**SENSITIZATION**

FOR SIMILAR MATERIAL(S):

HAS CAUSED ALLERGIC SKIN REACTIONS IN HUMANS.

HAS DEMONSTRATED THE POTENTIAL FOR CONTACT ALLERGY IN MICE.

**FOR RESPIRATORY SENSITIZATION:**

NO RELEVANT DATA FOUND.

**SPECIFIC TARGET ORGAN SYSTEMIC TOXICITY (SINGLE EXPOSURE)**

EVALUATION OF AVAILABLE DATA SUGGESTS THIS MATERIAL IS NOT AN STOT-SE TOXICANT.

**SPECIFIC TARGET ORGAN SYSTEMIC TOXICITY (REPEATED EXPOSURE) ONCE SENSITIZED, A SEVERE ALLERGIC REACTION**

MAY OCCUR WHEN SUBSEQUENTLY EXPOSED TO VERY LOW LEVELS.

**CARCINOGENIC DATA:** NTP: NONE OSHA: NONE IARC: NONE

## **SECTION 12. ECOLOGICAL INFORMATION**

### **TOXICITY**

#### **HEXAMETHYLENE DIISOCYANATE OLIGOMERS**

##### **ACUTE TOXICITY TO FISH**

MATERIAL IS MODERATELY TOXIC TO AQUATIC ORGANISMS ON AN ACUTE BASIS (LC50/EC50 BETWEEN 1 AND 10 mg/l IN THE MOST SENSITIVE SPECIES TESTED)

LC50, ONCORHYNCHUS MYKISS (RAINBOW TROUT), SEMI-STATIC TEST. 96 HR, >100 mg/l

##### **ACUTE TOXICITY TO AQUATIC INVERTEBRATES**

EC50, DAPHNIA MAGNA (WATER FLEA), STATIC TEST, 48 HR, >100 mg/l

##### **ACUTE TOXICITY TO ALGAE/AQUATIC PLANTS**

ErC50, SCENEDESMUS CAPRICORNUTUM (FRESH WATER ALGAE), STATIC TEST, 72 HR, GROWTH RATE INHIBITION >100 mg/L

#### **1-CHLORO-4-(TRIFLUOROMETHYL)BENZENE**

##### **ACUTE TOXICITY TO FISH**

MATERIAL IS MODERATELY TOXIC TO AQUATIC ORGANISMS ON AN ACUTE BASIS (LC50/EC50 BETWEEN 1 AND 10 mg/l IN THE MOST SENSITIVE SPECIES TESTED)

LC50, ONCORHYNCHUS MYKISS (RAINBOW TROUT), SEMI-STATIC TEST. 96 HR, 3 mg/l

##### **ACUTE TOXICITY TO AQUATIC INVERTEBRATES**

EC50, DAPHNIA MAGNA (WATER FLEA), STATIC TEST, 48 HR, >100 mg/l

##### **ACUTE TOXICITY TO ALGAE/AQUATIC PLANTS**

ErC50, SCENEDESMUS CAPRICORNUTUM (FRESH WATER ALGAE), STATIC TEST, 72 HR, GROWTH RATE INHIBITION >.41 mg/L

### **PERSISTANCE AND DEGRADABILITY**

**BIODEGRADABILITY:** NO DATA AVAILABLE.

**BIODEGRADATION:** NO DATA AVAILABLE

**PHOTODEGRADATION :** NO DATA AVAILABLE

**MOBILITY IN SOIL:** NO DATA AVAILABLE

## **SECTION 13. DISPOSAL INFORMATION**

**WASTE DISPOSAL METHODS:** CONTAINERS MAY STILL PRESENT A CHEMICAL HAZARD/DANGER WHEN EMPTY. DO NOT ALLOW WASH WATER FROM CLEANING OR PROCESS EQUIPMENT TO ENTER DRAINS. IT MAY BE NECESSARY TO COLLECT ALL WASH WATER FROM TREATMENT BEFORE DISPOSAL. CONSULT STATE LAND WASTE AUTHORITY FOR DISPOSAL.

## **SECTION 14. TRANSFORMATION INFORMATION**

### **INTERNATIONAL REGULATIONS**

#### **IATA-DGR**

UN/ID No. : NOT REGULATED  
PROPER SHIPPING NAME : NOT REGULATED  
CLASS : NOT REGULATED  
PACKING GROUP : NOT REGULATED  
LABELS : NOT REGULATED

#### **IMDG-CODE**

UN NUMBER : NOT REGULATED  
PROPER SHIPPING NAME : NOT REGULATED  
CLASS : NOT REGULATED  
PACKING GROUP : NOT REGULATED  
LABELS : NOT REGULATED  
EmS CODE : NOT REGULATED  
MARINE POLLUTANT : NOT REGULATED

### **DOMESTIC REGULATION**

#### **49 CFR**

UN/ID/NA NUMBER : NOT REGULATED  
PROPER SHIPPING NAME : NOT REGULATED  
CLASS : NOT REGULATED  
PACKING GROUP : NOT REGULATED  
LABELS : NOT REGULATED  
ERG CODE : NOT REGULATED  
MARINE POLLUTANT : NOT REGULATED  
DOT: As per 49CFR 173.150 (f) Combustible Liquid Exception, Material is Not Regulated.  
IMDG: For Limited Quantity special provisions reference IMDG Code Chapter 3.4

#### **Special precautions for user**

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

## **SECTION 15. REGULATORY INFORMATION**

### **EPCRA – EMERGENCY PLANNING AND COMMUNITY RIGHT-TO-KNOW**

**TSCA (TOXIC SUBSTANCE CONTROL ACT):** ALL COMPONENTS ARE LISTED IN THE TSCA CHEMICAL SUBSTANCE INVENTORY.

**CERCLA (COMPREHENSIVE RESPONSE COMPENSATION and LIABILITY ACT):** ND

#### **SARA TITLE III**

**SECTION 312 HAZARD CLASS:** ACUTE HEALTH HAZARD, CHRONIC HEALTH HAZARD

**SECTION 313 LISTED INGREDIENTS:** NONE ABOVE de Minimus LEVELS

**CALIFORNIA PROPOSITION 65:** THE BELOW LIST OF COMPOUNDS IS KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER, BIRTH DEFECTS OR OTHER REPRODUCTIVE HARM:

## **SECTION 16. ADDITIONAL INFORMATION**

INITIAL ISSUE DATE: APRIL 4, 2023

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PREPARED BY: C.STOKES

### **HAZARD RATING**

**HMIS:            HEALTH 2            FLAMMABILITY 1            REACTIVITY 0**

### **LEGEND**

ACGIH: AMERICAN CONFERENCE OF GOVERNMENTAL INDUSTRIAL HYGIENISTS

OSHA: OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION

STEL: SHORT TERM EXPOSURE LIMIT

TWA: TIME WEIGHTED AVERAGE

PEL: PERMISSIBLE EXPOSURE LIMIT

TLV: THRESHOLD LIMIT VALUE

NA: NOT APPLICABLE

NE: NOT ESTABLISHED

ND: NO DATA

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